

## ABSTRACT

An ultrasonic diagnostic system capable of phasing a received signal from an electroacoustic transducer arranged two-dimensionally with high precision is provided. The ultrasonic diagnostic system includes a sub-beam  
5 former (16) having amplifying sections (8, 9) for amplifying received signals of vibrators (1, 2), variable amplitude sections (10 to 13) for controlling amplitudes of an inverted output signal and a non-inverted output signal from the amplifying sections, a fixed-delay section (14) for imparting a delay time of a quarter of one period of the received signal to an added signal of the  
10 variable amplitude section, and an adding section (15) for adding the added signal of the variable amplitude section to an output signal of the fixed delay section, and a sub-beam former (17) having the same configuration as that of the sub-beam former (16), with respect to the received signals of the vibrators (3, 4), wherein the output signals from the sub-beam formers (16, 17) are  
15 subjected to delay addition by a main beam former (18).